

TOOLS
AND
APPLIANCES
FOR THE
CRAFTSMAN

**BUFFALO DENTAL
MANUFACTURING COMPANY**

METAL WORKING
and
WOOD WORKING
TOOLS and APPLIANCES
for
HOMECRAFT

Buffalo Dental
Manufacturing Company

143 Kehr Street
Buffalo, New York

HOBBIES

This catalog is dedicated to that large army of men and women who occupy their spare time in some manner which involves the use of tools.

Producing articles of beauty and usefulness not only creates a feeling of satisfaction in the mind of the craftsman, but affords beneficial relief from the strain of daily business life.

In this catalog we list a number of unusual appliances which will help home workers produce these articles more easily, and in a real workmanlike manner.

Our Company has produced tools and appliances for professional craftsmen since 1867, and you may be sure their worth has been tested thoroughly. We offer the result of these years of experience with the assurance that each tool and each appliance will do the work for which it is intended in the best possible manner.

**BUFFALO DENTAL
MANUFACTURING COMPANY**

**143 KEHR STREET
BUFFALO, NEW YORK**

HOW TO ORDER

TERMS :

1. Orders must be accompanied by remittance for full value of the articles, plus postage.
2. Shipments will be made C.O.D. if requested, in which case the customer pays additional C.O.D. collection charges.

Checks or money orders should be made payable to the Buffalo Dental Mfg. Co.

In making advance remittance, please include a sufficient extra amount to cover postage. Any balance to your credit will be returned immediately.

Heavy shipments can be sent express or freight, carrying charges collect. We make no extra packing charges.

In ordering, state exactly what is desired, giving the name and catalog number of each article. Please print your own name and address clearly.

Postage orders consisting of items aggregating less than eight ounces will be prepaid anywhere within the United States. The weights of articles in this catalog are listed to help you compute the postage rates when remitting.

All prices are subject to change without notice.

**BUFFALO DENTAL
MANUFACTURING COMPANY**

**143 KEHR STREET
BUFFALO, NEW YORK**

Blowpipes for Soldering and Brazing

The blowpipe is a necessary tool for hard soldering on jewelry. The heat is instantaneous and it can be directed anywhere. By changing the type of flame, a fine needle point of intense heat can be produced for spot soldering, or brush flames of various sizes can be obtained for sweat soldering, annealing, etc. When soldering low temperature metals, such as pewter, the blowpipe will melt and flow the solder so quickly that the metal does not have time to burn.

All of these blowpipes require an air blast of some kind. For convenience and efficiency a foot or power blower is recommended.

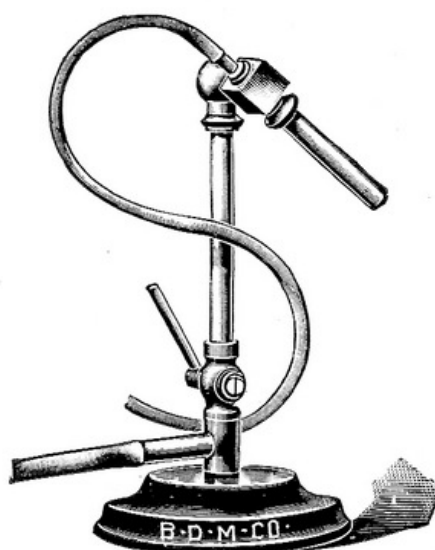
No. 4A Blowpipe

For illuminating gas only. Medium-sized brush flame and very small needle flame can be obtained. The arm is jointed and the flame can be directed in any position. Made entirely of brass with iron base. Takes air blast such as that produced by our No. 1 Rotary or No. 9 Foot Blower.

An adjustable blowpipe on a stand such as this, operated by a blower, permits the craftsman to use both hands for manipulating the work. This type of blowpipe has been in use in other fields for many years for the most precise soldering operations.

Weight: 1½ lbs.

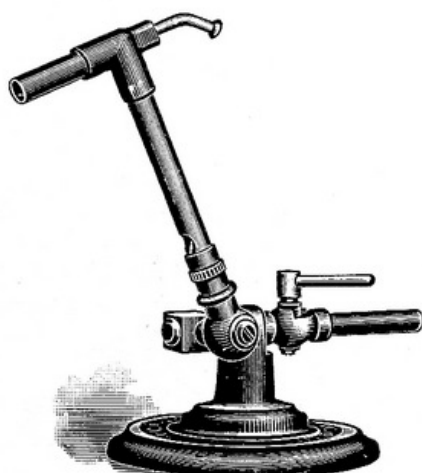
Price: \$2.00



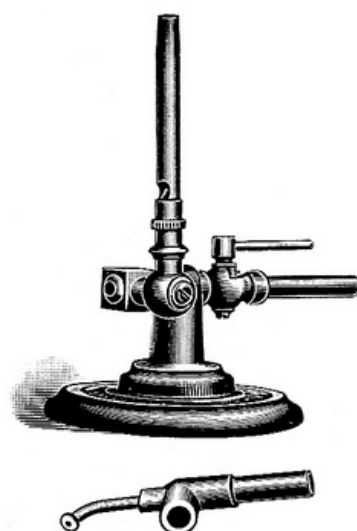
No. 4C Combined Blowpipe and Bunsen

For illuminating gas only. Good-sized brush flame or fine needle point can be produced by mouth, foot blower, or rotary blower. Blowpipe head is attached by a taper joint, and removal of head converts burner into a Bunsen. This is an extremely practical outfit for bench soldering.

Weight: 2 lbs. **Price:** \$4.50



No. 4C as a Blowpipe

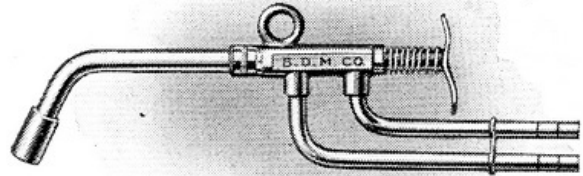


No. 4C as a Bunsen with Blowpipe Head Removed

No. 6F Automaton Blowpipe

This is without doubt our most popular blowpipe for home and shop use. A light blast of air with a small amount of gas will produce enough heat to melt gold. Used with the No. 9 Foot Blower, a large brush flame or a very fine needle flame suitable for fine metal work of all kinds, can be obtained. Supplied in two types, for natural gas or for illuminating gas.

Shipping weight: 1 lb.

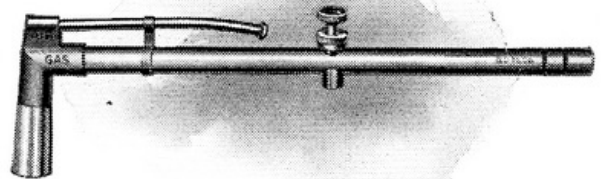


Price: Illuminating gas, \$4.00
Natural gas, \$5.00

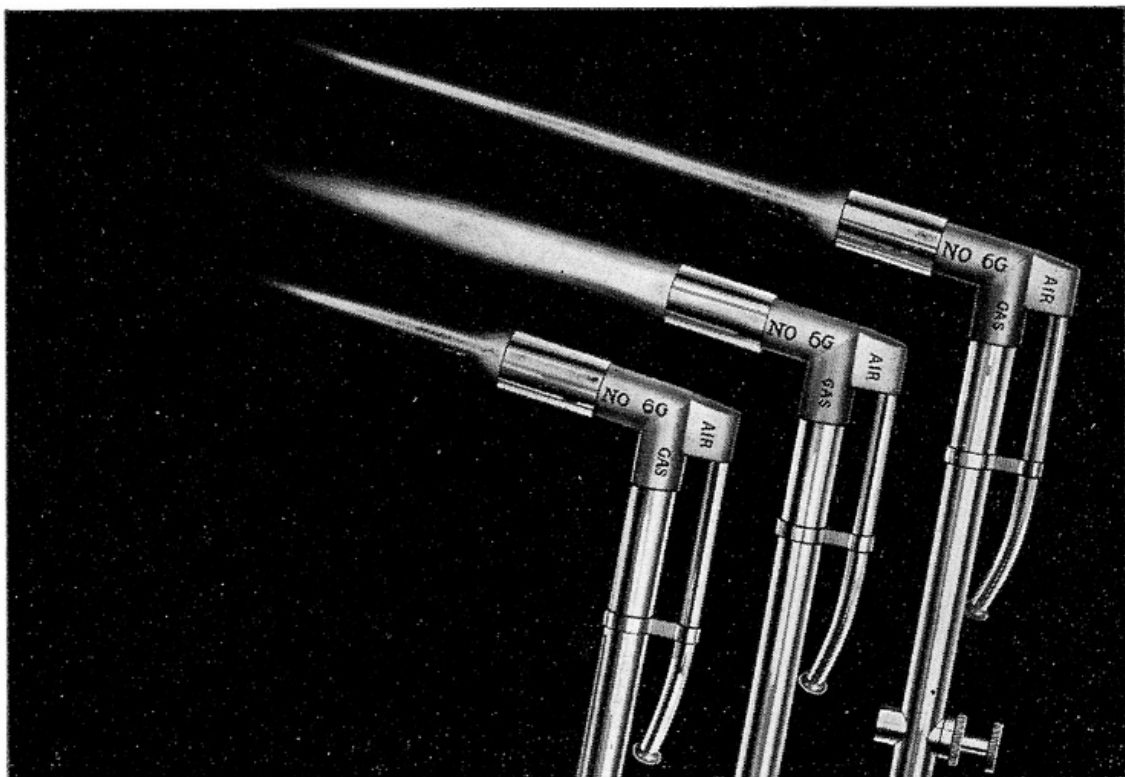
No. 6G Gasoline Gas Blowpipe

The No. 6G Blowpipe for gasoline gas is used in connection with our No. 45 Gasoline Gas Generator. It is very sensitive, and will produce a long fine needle flame as well as the usual brush flame. Size and type of flame readily controlled by the combined rotary and push valve in the gas tube.

The illustration gives a splendid idea of the proportions of the various types of flame obtainable with this blowpipe.



Shipping weight: 1 lb. Price: \$3.50



No. 8C Blowpipe

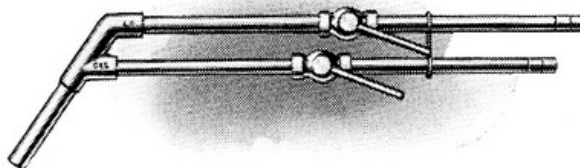
Supplied in two types, one for illuminating gas and one for natural gas. This blowpipe is made entirely of brass. It is a powerful appliance for soldering, light brazing and annealing. Sturdily built without being unwieldy.

Maximum gas consumption:

42 cu. ft. per hr.

Gas supply pipe and tap: $\frac{3}{8}$ "

Air jet: $\frac{1}{8}$ ". Gas opening: $\frac{7}{16}$ ".



Weight: 1 lb.

Price: Illuminating gas, \$3.50

Natural gas, \$4.00

No. 8E Blowpipe

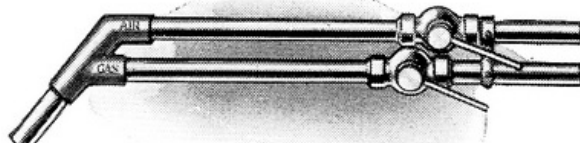
Same general type as the No. 8C, but larger. Very powerful. Requires blast of air from a power blower. Made of brass throughout. Supplied for illuminating or natural gas.

Maximum gas consumption:

90 cu. ft. per hr.

Gas supply pipe and tap: $\frac{1}{2}$ ".

Air jet: $\frac{3}{16}$ ". Gas opening: $\frac{5}{8}$ ".



Weight: $1\frac{1}{2}$ lbs.

Price: Illuminating gas, \$5.00

Natural gas, \$5.50

Nos. 8F and 8G Blowpipes

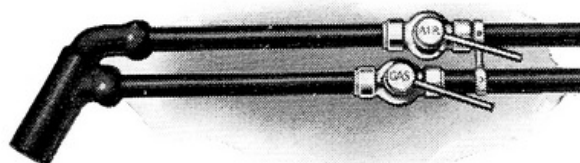
Heavy pattern for large work. The No. 8F Blowpipe is for illuminating gas and the No. 8G for natural gas. The head is made of iron, and all other parts including the stopcocks are of brass. Type and velocity of flame under perfect control of the hand holding blowpipe. Power blower required.

Maximum gas consumption:

150 cu. ft. per hr.

Gas supply pipe and tap: $\frac{3}{4}$ ".

Air jet: $\frac{5}{16}$ ". Gas opening: $\frac{7}{8}$ ".



Weight: 3 lbs.

Price: No. 8F, \$7.00

No. 8G, \$7.00

Mouth Blowpipes

Plain brass. Supplied in three lengths.

9" long

Price: \$.30

11" long

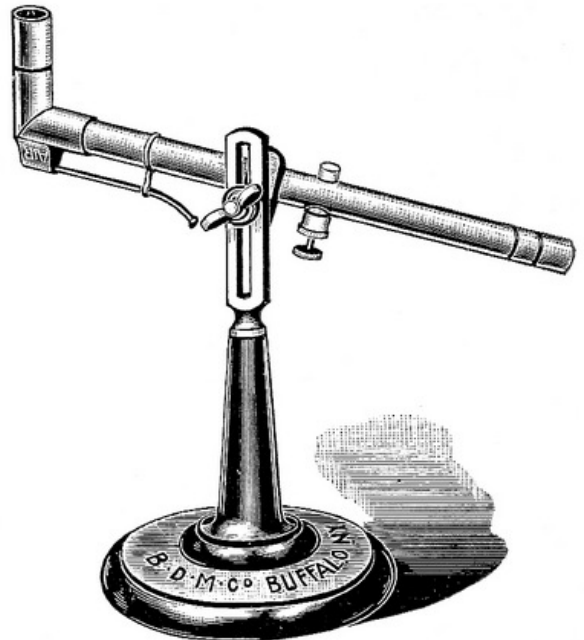
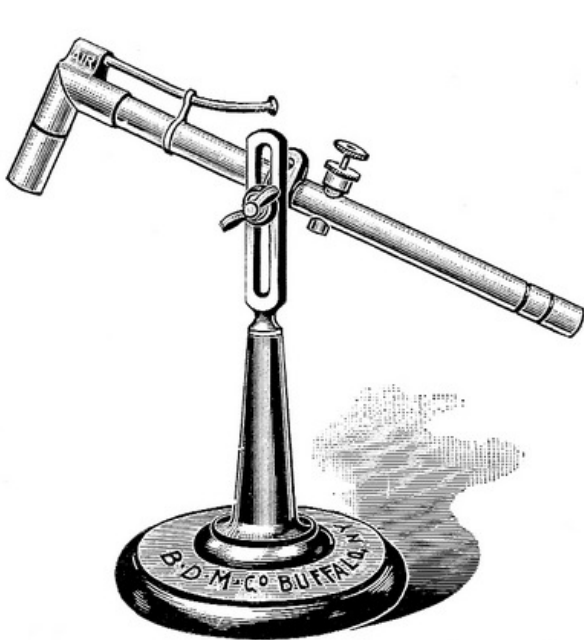
\$.35

12" long

\$.40



No. 6G Blowpipe Stand



The illustration explains the use of this very handy stand. Can be used with almost any blowpipe, but is particularly useful with the No. 6G. The

stand is seven inches high and is made of heavy cast iron. Blowpipe can be fastened in any position.

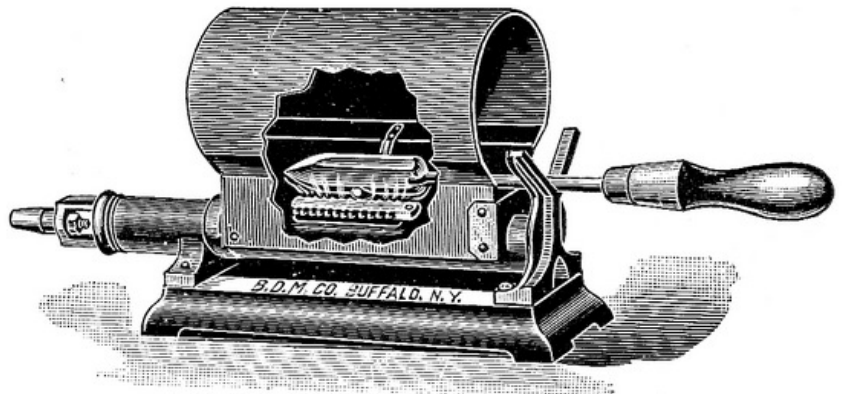
Weight: 2 lbs.

Price: \$2.25

Soldering Bit Heaters

The No. 18 Soldering Bit Heater is a very good bench heater that will handle bits of various sizes and keep them at the right temperatures indefinitely. For illuminating or natural gas.

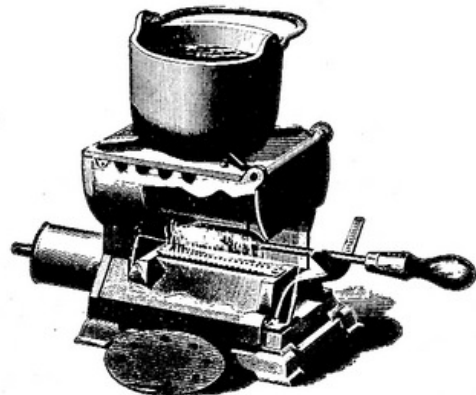
Weight: 4½ lbs. Price: \$3.85



The No. 18A Soldering Bit Heater has a cast iron hood with a removable lid. It can thus be used for melting metals as well as heating the soldering bit. For illuminating or natural gas. The ladle illustrated is extra.

Weight: 11 lbs.

Price: \$5.00



Foot Blowers

If blowpipes are used for soldering or brazing, or if forced draft furnaces are operated, a supply of air is necessary. Buffalo Dental Foot Blowers supply this need efficiently and economically. They are substantially made of hard wood bellows boards, best grade sheepskin leathers, and pure rubber diaphragms. This type of foot blower has been widely imitated. Every genuine Buffalo Dental blower is stamped with our name.

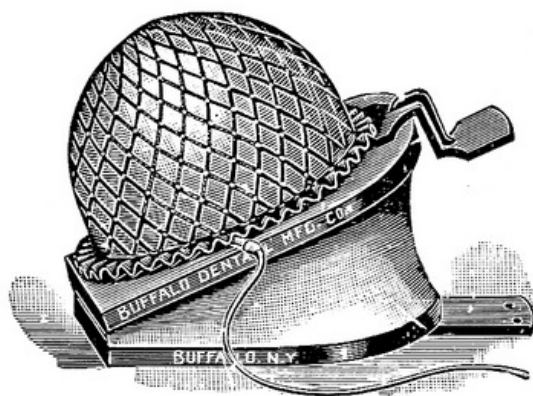


Table of Sizes and Capacities of Foot-Blowers

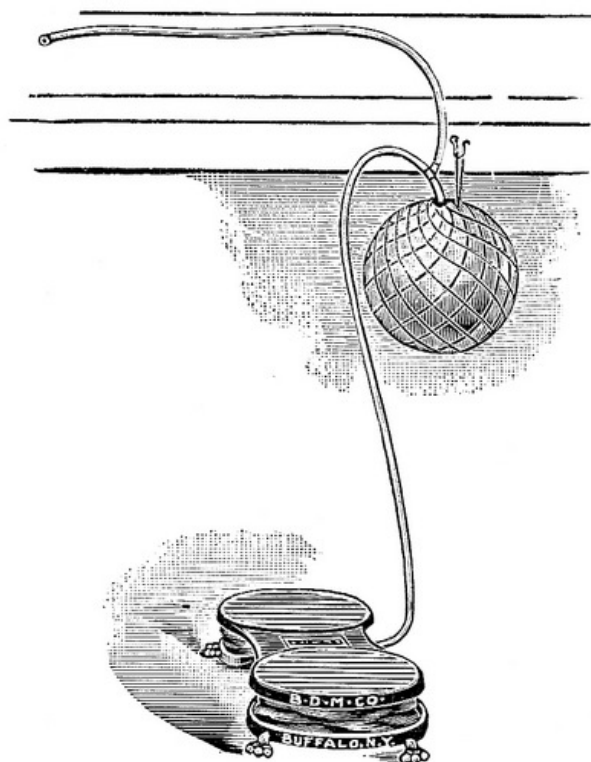
		Size of boards	Diameter of air Reservoir	Pressure of blast per inch	Cu. ft. of air per hour	Weight	Price
No. 9	Foot Blower	7 $\frac{3}{4}$ " x 9"	7 $\frac{1}{4}$ "	1 lb.	190	6 lbs.	\$ 9.50
No. 9A	Foot Blower	10 " x 11"	9 "	1 $\frac{1}{4}$ lb.	330	10 lbs.	\$12.50
Extra rubber diaphragms:				No. 9	\$.65	Extra Nets:	
				No. 9A	\$.75	No. 9	\$.50
						No. 9A	\$.60

No. 90 Foot Blower

The double action No. 90 Foot Blower is fitted with an outside air bag or reservoir which delivers a steady supply of air to the blowpipe under even pressure. This is a very desirable type of blower for delicate work such as fine jewelry.

Weight: 6 lbs.

Price: \$14.00



Rubber Tubing

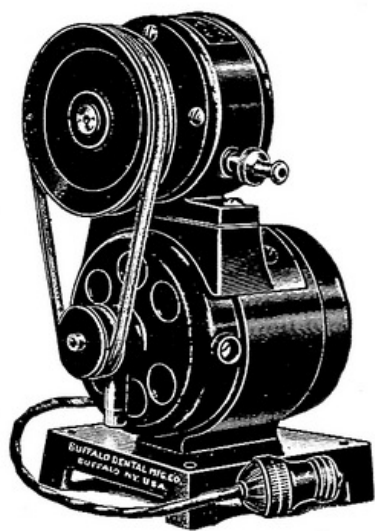
For making connections to all kinds of gas burning appliances such as Bunsens, blowpipes, heating burners, etc. Red antimony rubber with thick walls. A special grade made for use with gas.

Table of Sizes of Rubber Tubing

Inside Diameter	3/16 in.	1/4 in.	5/16 in.	3/8 in.	1/2 in.	5/8 in.
Wall Thickness	1/16 in.	1/16 in.	1/8 in.	1/8 in.	1/8 in.	1/8 in.
Price: Per foot	\$.15	\$.15	\$.20	\$.25	\$.30	\$.35

Motor Blowers

The No. 1C Motor Blower is a very compact outfit for producing an air blast, and will be found of great value where bench space is limited. The No. 1D Motor Blower utilizes a $\frac{1}{8}$ H.P. motor, and is, therefore, steadier in operation. By disconnecting the blower, this outfit can be used as a polishing and grinding motor.

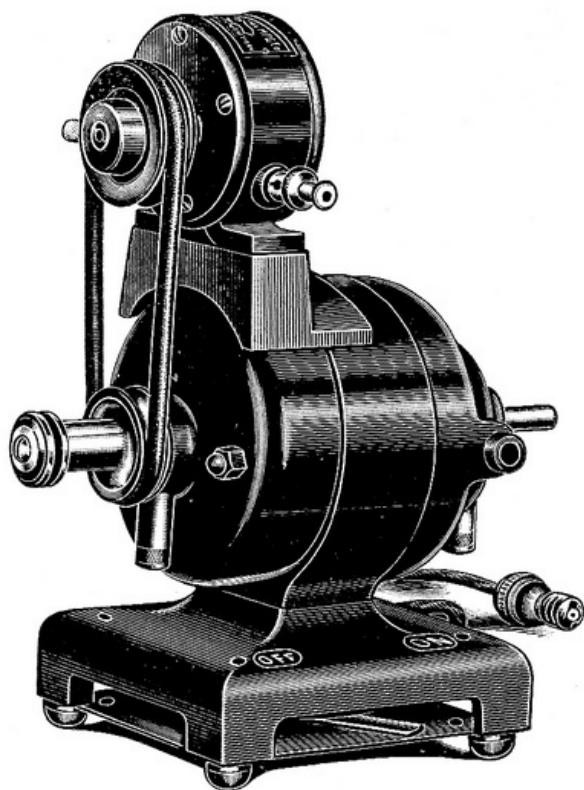


No. 1C

No. 1 Rotary Blower mounted on a $\frac{1}{16}$ H.P. motor. Supplied for 110 volts A.C. or D.C.

Weight: $8\frac{1}{2}$ lbs.

Price: \$49.00



No. 1D

Same air capacity as No. 1C.

Motor: a $\frac{1}{8}$ H.P. dental laboratory lathe of standard make. It can be used separately in that capacity simply by disconnecting the belt. The combination pulley and chuck is included.

Supplied for 110 volts either A.C. or D.C.

Weight: $15\frac{1}{2}$ lbs.

Price: \$56.50

No. 45 Gasoline Gas Generator

The No. 45 Buffalo Gasoline Gas Generator is widely used in summer camps and studios. It is very attractive, and is simple to operate.

Splendid for small delicate soldering and annealing operations where a supply of piped gas is not available. Usually operated in connection with our No. 6G Blowpipe and a foot or rotary blower. Made entirely of brass and copper, nickel plated and polished: 7" high, 4" in diameter. A separate pamphlet, "Soldering with Gasoline Gas" will be sent on request.

Weight: 3 lbs.

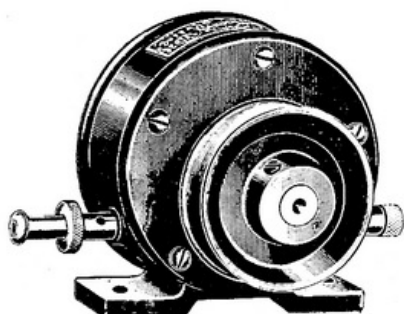
Price: \$15.00



Rotary Blowers

Rotary Blowers can be connected to a motor by means of a leather belt, and will produce a blast of air without effort on the part of the operator.

Our Rotary Blowers operate on the centrifugal principle. The blades are accurately fitted, and with ordinary lubrication these Blowers should last a life time.



No. 1

Capacity sufficient to operate blowpipes, ordinary melting furnaces and the like.

At 1500 R.P.M. it produces 3 pounds pressure, 1.8 cu. ft. of air per minute, and 7½" of vacuum.

At 3000 R.P.M. it produces 5½ pounds pressure, 3.7 cu. ft. of air per minute, and 10" of vacuum.

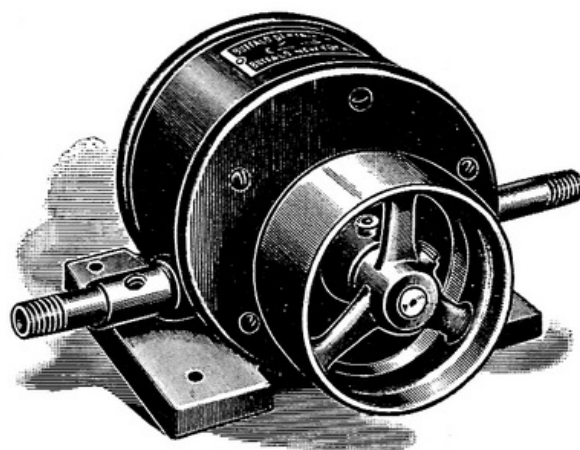
Furnished complete with 3 feet of leather lathe belting with hook.

Pulleys for any standard make of laboratory lathe can be provided.

Dimensions: 4⅝" x 3⅜" x 3¼" high.

Weight: 3 lbs.

Price: \$12.00



No. 2

About twice the capacity of No. 1. Of sufficient capacity to operate the largest of brazing blowpipes and laboratory blast furnaces.

At 1500 R.P.M. it produces 10 pounds pressure, 4.13 cu. ft. of air per minute and 18" of vacuum.

Dimensions: 5¼" x 5" x 5½" high.

Weight: 12 lbs.

Price: \$26.00

Rouge

Red, for polishing gold and silver. Will eliminate minute scratches in the metal. Used on a cloth or chamois buff to impart a high polish. Each stick wrapped in tinfoil and boxed.

Price: Per stick, \$.20

Tripoli

A faster cutting compound than rouge, tripoli is usually employed for the preliminary polish on gold and silver. Used on a buff.

Price: Per stick, \$.10

Hilustre

Probably the best material on the market today for putting the finest possible polish on all gold and silver work. Use it on a cloth wheel and buff lightly.

We recommend this without reservation. Supplied in two ounce sticks wrapped and boxed.

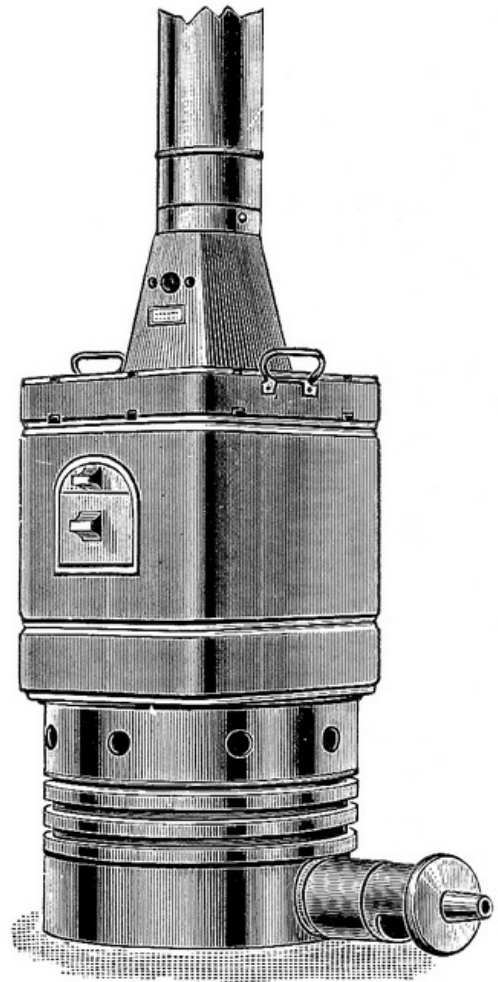
Price: Per stick, \$.25

Muffle Furnaces

Muffle furnaces are necessary for high temperature work in which the products of combustion must be excluded from the heating chamber. Their chief use in the crafts is for enameling, in which the colors must be protected. These furnaces are also excellent for hardening small tools.

The furnace proper is a heavy metal-clad fire clay oven. A dome or outer muffle surrounds the inner muffle into which the work is placed. Fire clay doors effectively seal the muffle space.

The burners furnished with these furnaces operate on natural draft, without air blast. They can be operated with natural, illuminating or gasoline gas without alteration, the adjustment for different gases being made at the throat of the burner. Muffle, dome, crucible tongs, and six feet of chimney pipe are included in the price.



SPECIFICATIONS

No. 3

(With No. 15 Burner)

Maximum gas consumption:

75 cu. ft. per hour

Gas pipe and tap: $\frac{1}{2}$ "

Dimensions:

Inside muffle space, 3" x 4" x $2\frac{3}{8}$ " high

Clay parts, outside, $7\frac{3}{4}$ " x $7\frac{3}{4}$ " x 8"

inside, $5\frac{1}{4}$ " x $5\frac{3}{4}$ " x $5\frac{1}{4}$ "

Height, table to lid top, 16"

Weight: 60 lbs.

Price: \$40.00

No. 4

(With No. 4 Burner)

Maximum gas consumption:

96 cu. ft. per hr.

Gas pipe and tap: $\frac{3}{4}$ "

Dimensions:

Inside muffle space, $3\frac{7}{8}$ " x $5\frac{7}{8}$ " x $3\frac{1}{2}$ " high

Clay parts, outside, 10" x 9" x 11"

inside, $7\frac{1}{2}$ " x $6\frac{1}{2}$ " x $5\frac{3}{4}$ "

Height, table to lid top, $19\frac{1}{2}$ "

Weight: 88 lbs.

Price: \$48.00

No. 5

(With No. 5 Burner)

Maximum gas consumption:

120 cu. ft. per hr.

Gas pipe and tap: 1"

Dimensions:

Inside muffle space, $4\frac{7}{8}$ " x $6\frac{5}{8}$ " x 4"

Clay parts, outside, $11\frac{3}{4}$ " x $10\frac{3}{4}$ " x 14"

inside, $8\frac{3}{4}$ " x $7\frac{3}{4}$ " x $6\frac{3}{4}$ "

Height, table to top of lid, 23"

Weight: 145 lbs.

Price: \$72.00

No. 6

(With No. 6 Burner)

Maximum gas consumption:

225 cu. ft. per hr.

Gas pipe and tap: 1"

Dimensions:

Inside muffle space, 6" x $8\frac{1}{2}$ " x $4\frac{7}{8}$ "

Clay parts, outside, 14" x $15\frac{1}{4}$ " x $17\frac{1}{4}$ "

inside, $10\frac{1}{4}$ " x $9\frac{1}{2}$ " x $8\frac{3}{4}$ "

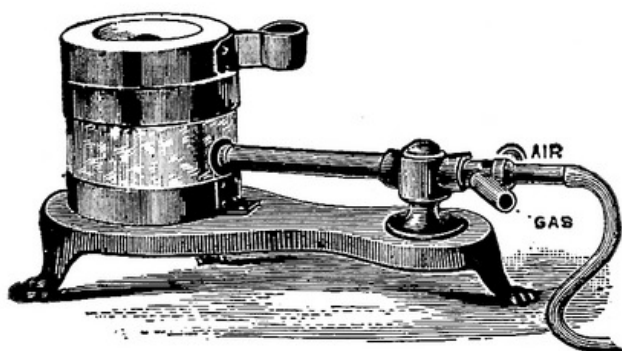
Height, table to lid top, $27\frac{1}{4}$ "

Weight: 225 lbs.

Price: \$88.00

No. 40A Crucible Furnace

This furnace consists of a simple fire clay pot for holding the crucible, with a cover and a burner, all mounted on a cast iron base. An air blast, such as that supplied by our No. 9A Foot Blower, is required. The burner operates on natural, illuminating, or gasoline gas.



SPECIFICATIONS

Crucible: No. 00
Capacity: $\frac{1}{2}$ lb.
Maximum gas consumption:
24 cu. ft. per hr.
Gas supply pipe: $\frac{3}{8}$ "

Dimensions of clay parts:
Outside: $4\frac{1}{8}$ " diameter x $5\frac{3}{8}$ " high
Inside: $2\frac{5}{8}$ " diameter x $2\frac{1}{2}$ " high

Weight: 6 lbs.

Price: \$8.50

No. 41, 41A, 41B Crucible Furnaces

These furnaces are of the same type as the No. 40A, but of greater capacity and power. Can be used by metallurgists, makers of jewelry, artificial gems, etc. The burner operates on natural, illuminating, or gasoline gas without alteration.

The bodies and covers are of fire clay, covered with black sheet steel. Cover has a bale to permit easy removal when hot. The burner is a separate unit, working on the injector principle. Suitable air blast is required for proper operation.

SPECIFICATIONS

No. 41

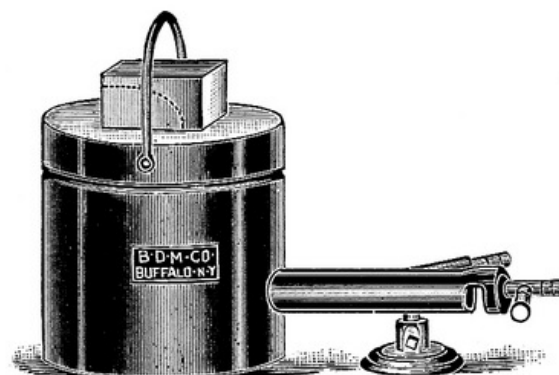
(Uses No. 9A Foot Blower)

Crucible: No. 1
Capacity: 2 lbs.
Maximum gas consumption:
42 cu. ft. per hr.
Gas supply pipe: $\frac{3}{8}$ "

Dimensions of clay parts:
Outside: $6\frac{1}{2}$ " diameter, $7\frac{1}{4}$ " high
Inside: $3\frac{1}{2}$ " diameter, $3\frac{1}{4}$ " high

Weight: 12 lbs.

Price: \$10.50



No. 41B

(Best results with Power Blower)

Crucible: No. 8
Capacity: 24 lbs.
Maximum gas consumption:
100 cu. ft. per hr.
Gas supply pipe: $\frac{3}{4}$ "

Dimensions of clay parts:
Outside: 12 " diameter, 14 " high
Inside: $6\frac{1}{2}$ " diameter, $9\frac{1}{2}$ " deep

Weight: 65 lbs.

Price: \$25.00

No. 41A

(Best results with Power Blower)

Crucible: No. 3
Capacity: 6 lbs.
Maximum gas consumption:
60 cu. ft. per hr.
Gas supply pipe: $\frac{1}{2}$ "

Dimensions of clay parts:
Outside: 9 " diameter, 10 " high
Inside: $4\frac{3}{4}$ " diameter, $5\frac{1}{2}$ " deep

Weight: 30 lbs.

Price: \$14.00

No. 141 Combined Muffle and Crucible Furnace

Supplied with muffle fittings and No. 3 crucible. Can be used either as a crucible or muffle furnace. Cover has a projection on one face which will reduce height of furnace enough to receive muffle or a No. 3 Crucible. With cover reversed, a No. 6 Crucible can be used. Made for natural, illuminating or gasoline gas. Operates best with a power blower.



SPECIFICATIONS

Capacity: With No. 6 Crucible, 12 lbs.;
with No. 3 Crucible, 6 lbs.

Maximum gas consumption:
75 cu. ft. per hr.

Gas supply pipe: $\frac{1}{2}$ " or $\frac{3}{4}$ " with clear
way tap.

Dimensions of clay parts:

Outside: $9\frac{1}{2}$ " diameter, 11 " high

Inside: 6 " diameter, $6\frac{1}{2}$ " deep

Weight: 35 lbs.

Price: \$25.00

No. 14 Ladle Furnace

A very handy outfit for melting lead, tin, zinc, or other similar metals. The burner can be removed from the casing and used for other purposes, if desired. Burner operates on any kind of gas. Iron ladles in three sizes with detachable handles, to fit this furnace are listed on page 14.

Weight: 8 lbs.

Price: \$9.50



Crucible Tongs



Malleable Iron. Not heavy enough to be awkward, but of sufficient strength to handle smaller crucibles.

No. X 12—12" long.

Weight: 1 lb. Price: \$1.50

No. X 17—17" long.

Weight: $1\frac{1}{2}$ lbs. Price: \$1.90

No. 16 Iron Ladle



Diameter of bowl, $1\frac{3}{4}$ inches. Length overall, including wood handle, 8 inches.

Price: \$.60

Plumbago and Clay Fittings

These crucibles are nicely designed with flat bottoms. Plumbago crucibles have a pouring lip; clay crucibles are without the lip.

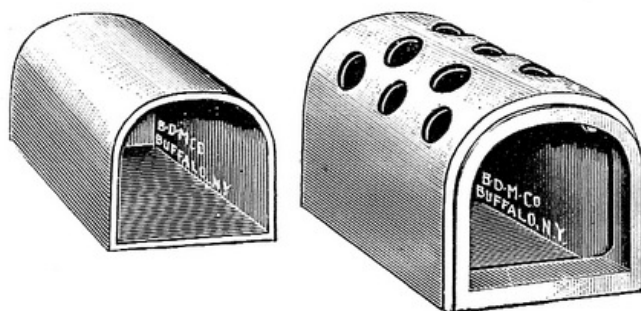
Plumbago and clay crucibles, American made, are furnished in the following sizes:



	Diameter	Height	Capacity	Weight	Price	
					Clay	Plumbago
No. 00	2 "	2 $\frac{1}{4}$ "	$\frac{1}{2}$ lb.	..	\$.15	\$.65
No. 0	2 $\frac{3}{8}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ lb.	..	.15	.65
No. 1	2 $\frac{1}{2}$ "	3 "	2 lbs.	..	.20	.65
No. 2	2 $\frac{3}{4}$ "	3 $\frac{1}{2}$ "	4 lbs.	1 lb.	.25	.90
No. 3	3 $\frac{3}{4}$ "	4 "	6 lbs.	1 lb.	.30	1.05
No. 6	4 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	12 lbs.	4 lbs.	..	1.85
No. 8	5 $\frac{3}{4}$ "	7 $\frac{1}{8}$ "	24 lbs.	5 lbs.	..	2.50

MUFFLES AND DOMES

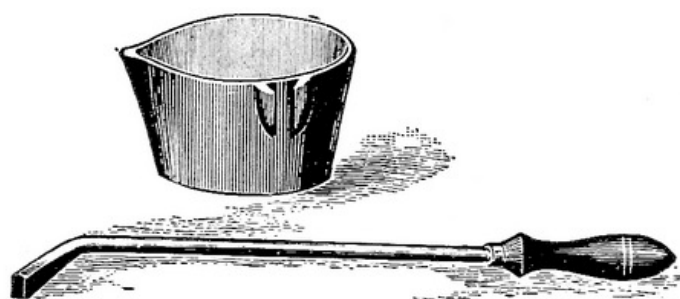
Muffles and domes to fit our furnaces are made of plumbago and can be furnished in the following sizes:



	Inside Dimensions			Weight	Price	
	Width	Length	Height		Muffle	Dome
No. 3	3 "	4 "	2 $\frac{3}{8}$ "	3 lbs.	\$1.25	\$1.50
No. 4	3 $\frac{7}{8}$ "	5 $\frac{7}{8}$ "	3 $\frac{1}{2}$ "	4 lbs.	1.50	1.50
No. 5	4 $\frac{7}{8}$ "	6 $\frac{5}{8}$ "	4 "	5 lbs.	2.50	2.50
No. 6	6 "	8 $\frac{1}{2}$ "	4 $\frac{7}{8}$ "	12 lbs.	3.50	3.50
No. 141	3 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	2 $\frac{7}{8}$ "	1 $\frac{1}{2}$ lbs.	1.50

No. 14 Ladles with Detachable Handles

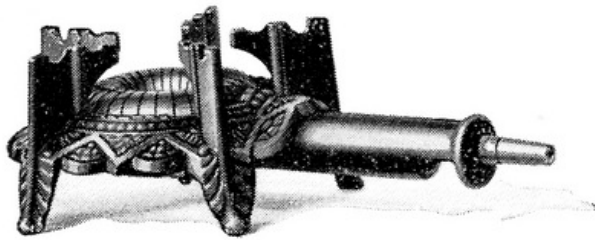
Particularly for use in the No. 14 Ladle Furnace, but useful for any melting purposes. One handle will fit any ladle and can be removed while ladle is on the fire. Made of cast iron in three sizes:



No. 14S	Ladle, 4 " x 2 $\frac{3}{8}$ ",	weight 2 lbs.	Price: \$.85
No. 14M	Ladle, 4 $\frac{3}{8}$ " x 2 $\frac{3}{4}$ ",	weight 2 $\frac{1}{2}$ lbs.	Price: \$.90
No. 14L	Ladle, 4 $\frac{1}{2}$ " x 2 $\frac{3}{4}$ ",	weight 3 lbs.	Price: \$1.00
No. 14H	Handle, 16" long,	weight 12 oz.	Price: \$.80

Gas Burners for Bench Work

These burners can be used for heating liquids, warming glue pots, melting low-temperature metals, heating soldering bits, etc. Very substantial in construction, and will give intense heat when operated to full capacity.

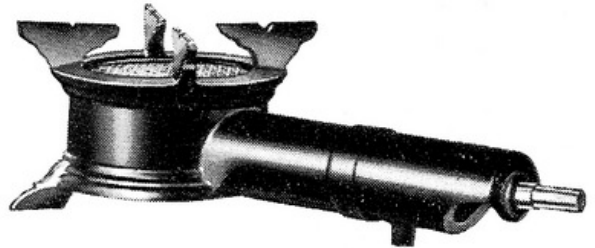


No. 1R Ring type
Ring 3" diameter, stand 6½" diameter.
Maximum gas consumption:
30 cu. ft. per hr.

Weight: 4½ lbs. **Price:** \$3.50

No. 2R Ring type
Ring 5" diameter, stand 7½" diameter.
Maximum gas consumption:
42 cu. ft. per hr.

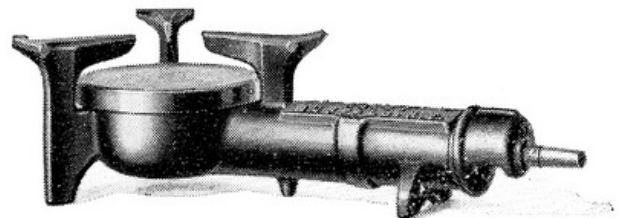
Weight: 6½ lbs. **Price:** \$4.25



No. 46B Solid flame type
Diameter of flame surface: 3¾".

Maximum gas consumption:
72 cu. ft. per hr.

Weight: 5½ lbs. **Price:** \$4.25



No. 47 Solid flame type
Diameter of flame surface: 4¼".

Maximum gas consumption:
60 cu. ft. per hr.

Weight: 5 lbs. **Price:** \$4.50

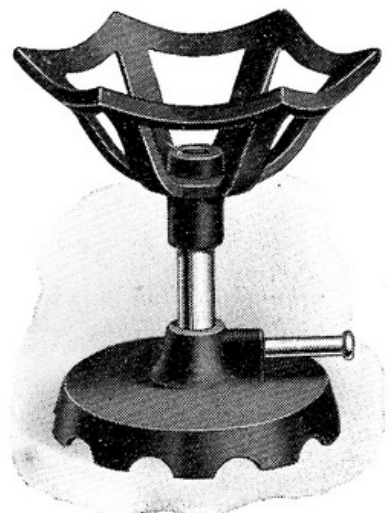
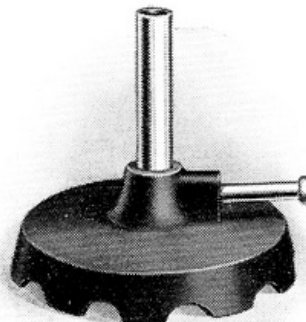
No. 5N Bunsen Burner

An efficient small bench Bunsen which will be found useful in any work shop. Fine for mouth blow-pipe work. Supplied for illuminating or natural gas, as ordered. We also have a spider that fits over this Bunsen, for supporting small vessels.

(We make a large line of Bunsen burners for various special purposes, and welcome inquiries.)

Price:

No. 5N Bunsen only, \$.75
No. 5N Bunsen with Spider, \$1.10

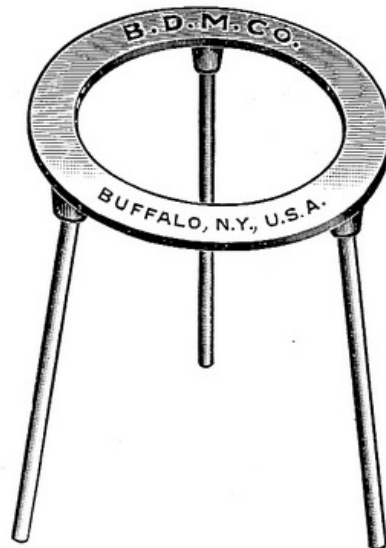


No. 53 Tripod

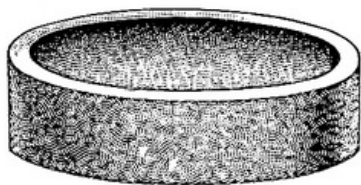
A very simple device for use over Bunsen burners. Handy for supporting articles to be heated slowly.

Height: $5\frac{1}{2}$ "
Leg spread: $4\frac{1}{2}$ "
Diameter of top: $4\frac{1}{2}$ "
Opening: $3\frac{1}{8}$ "

Shipping weight: 1 lb. Price: \$.85



Soldering Blocks



No. 122 Asbestos Block
 $4\frac{1}{2}$ " diameter.

Weight: $1\frac{1}{2}$ lbs. Price: \$.65

No. 122C Asbestos Block
 $3\frac{1}{2}$ " diameter.

Weight: 1 lb. Price: \$.60

No. 1 Charcoal Block
(not illustrated)
 $2\frac{1}{4}$ " x $3\frac{1}{4}$ " x $1\frac{1}{8}$ "

Price: \$.30

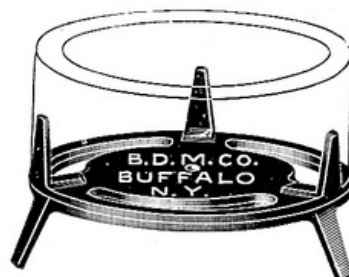
No. 2 Charcoal Block
(not illustrated)
 $2\frac{7}{8}$ " x 5" x 1"

Price: \$.60

No. 122D Soldering Block Holder

A most useful device for holding soldering blocks. The upper section revolves so the work may be brought directly under the blowpipe flame. Made of iron, nickel dipped. For holding $4\frac{1}{2}$ " round blocks.

Weight: 1 lb. Price: \$1.00

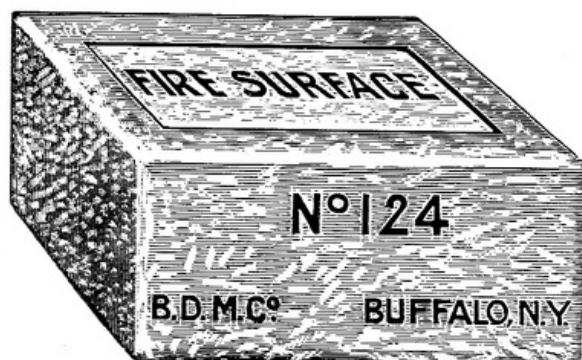


No. 124 Magnesium Soldering Block

The No. 124 Magnesium Soldering Block is made of carbonate of magnesium and asbestos. It is rather soft, permitting small articles to be pinned to it while soldering.

Size: 3" x $2\frac{1}{2}$ " x 1"

Price: \$.20



Rectangular Asbestos Pads

Edged with iron. For protecting the top of the work bench during heating or soldering operations. The asbestos is approximately $\frac{1}{4}$ -inch thick.

No. $\frac{1}{2}$ AP—6" x 6"

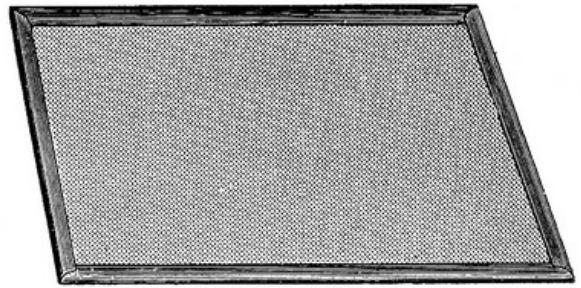
Weight: ... Price: \$1.00

No. 2 AP—10" x 10"

Weight: $1\frac{1}{2}$ lbs. Price: \$1.25

No. 3 AP—13" x 20"

Weight: $2\frac{1}{2}$ lbs. Price: \$1.75



Circular Asbestos Pads

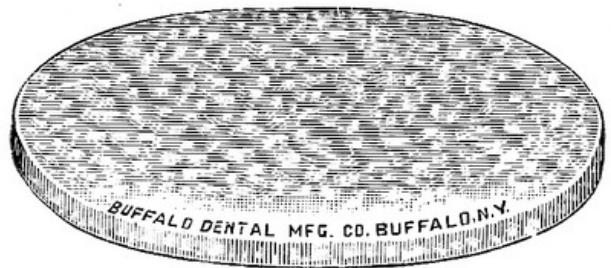
No binding. Circles cut from good grade asbestos board.

No. $4\frac{1}{2}$ — $4\frac{1}{2}$ " in diameter

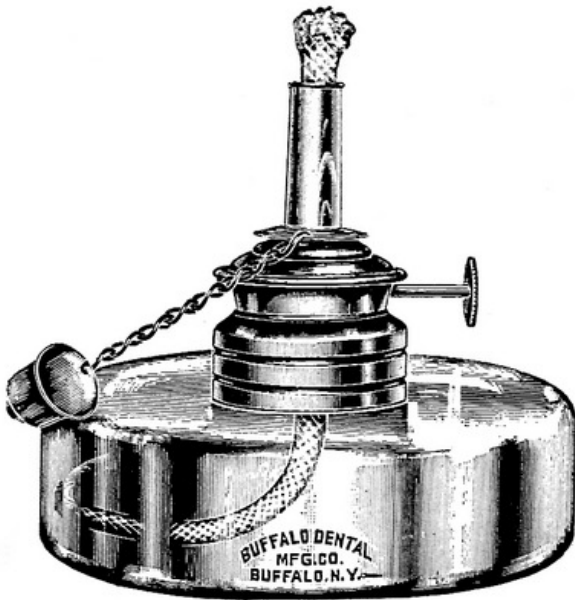
Weight: ... Price: \$.15

No. 9—9" in diameter

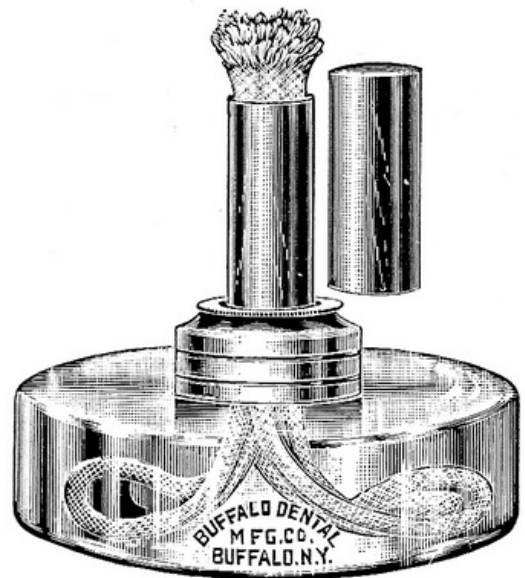
Shipping weight: 1 lb. Price: \$.25



Alcohol Lamps



No. 1



No. 2

Where gas is not readily available, an alcohol lamp can be used in place of a Bunsen burner with good results. The purity of alcohol flame makes it preferable in some cases to a gas flame. These

lamps have glass bases $3\frac{3}{4}$ " in diameter, and will hold a generous quantity of alcohol. Excellent for soldering with a mouth blowpipe.

Price: No. 1, \$1.00; No. 2, \$1.25.

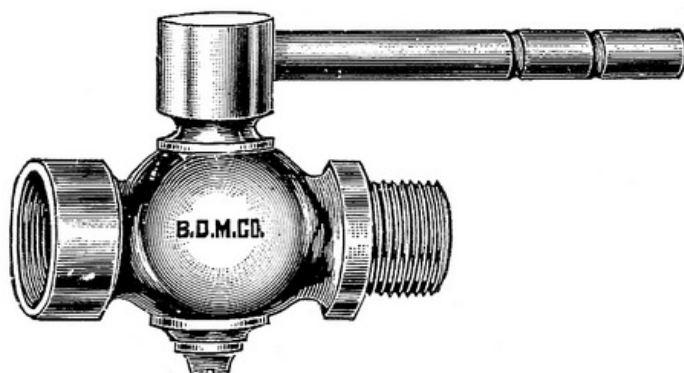
Bench Fittings

Accurately machined brass fittings for making connections between the gas supply pipes and various appliances such as blowpipes, small furnaces, burners, etc.

No. 116 Gas Tap

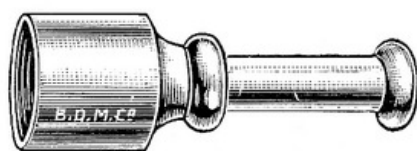
Threaded to fit standard $\frac{1}{8}$ -inch gas pipe thread. Each plug is ground to a gas tight fit in the body. Made entirely of brass.

Price: \$.85

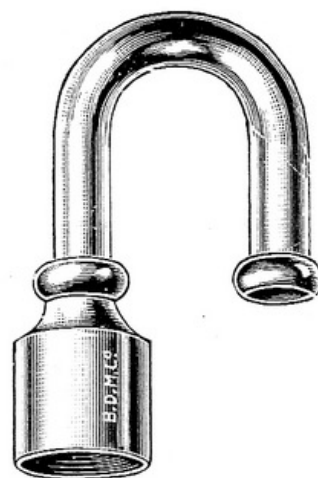
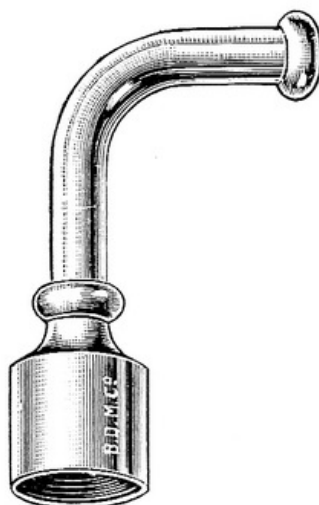


Brass Connections

For screwing to the No. 116 Gas Tap. With button to keep rubber tubing from slipping off.



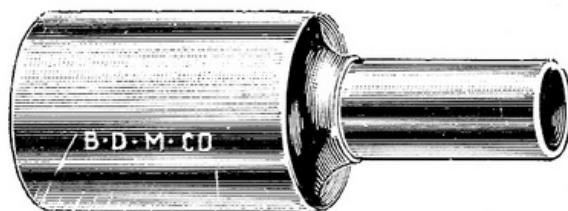
Price:	No. 117, Straight,	\$.50
	No. 117A, Quarter Turn,	\$.50
	No. 117B, Half Turn,	\$.50



Brass Reducers

For making connections between rubber tubes of different sizes. The cuts are actual size.

Price:	No. 118,	\$.20
	No. 118A,	\$.40
	No. 118B,	\$.20



No. 118A



No. 118



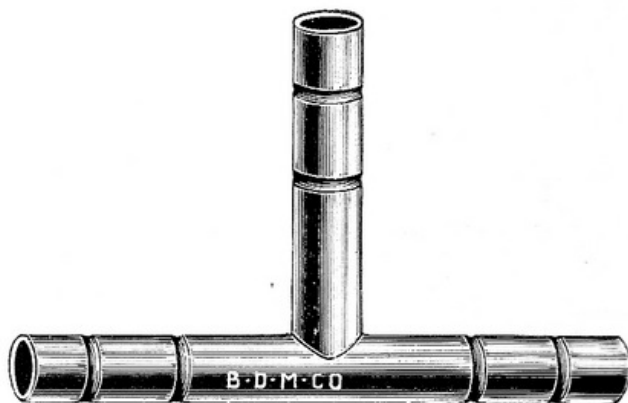
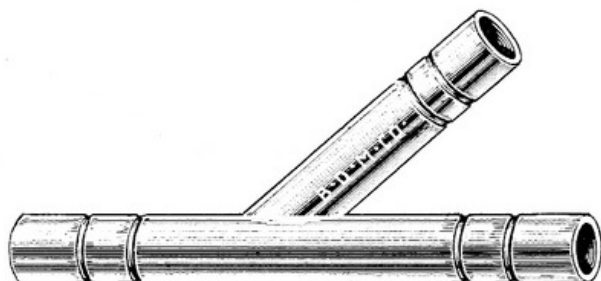
No. 118B

Brass "Y" and "T" Connections

For branching rubber tubing. Made of brass with hard soldered joints. Cuts approximately full size.

Price: No. 119 "Y", \$.50

No. 119A "T", \$.50



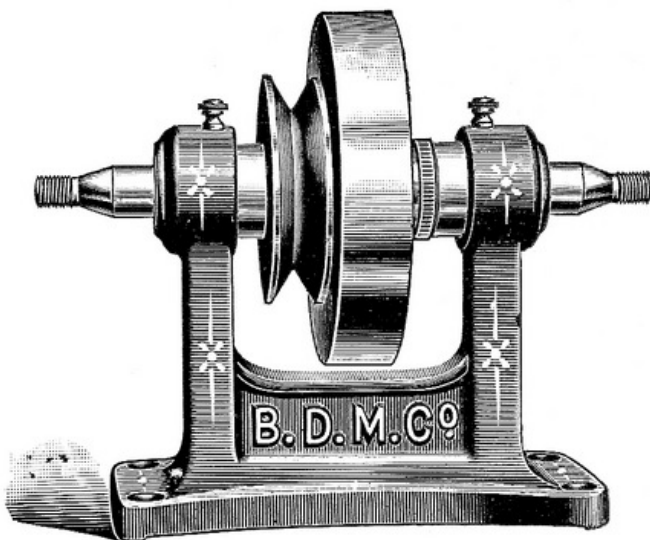
Lewis Lathe Head

Can be fastened to bench and connected to a motor by means of a leather belt. A true-running head, solid and substantial, with adjustable cone bearings. Beautifully finished in bright polished nickel and black enamel. Each head is equipped with five chucks, one for brush wheels and buffs, and the others for mounting small grinding wheels.

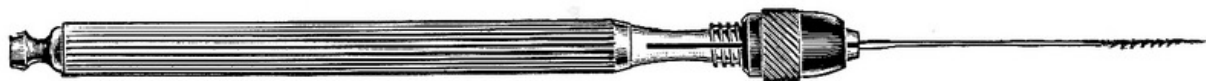
Weight: 4 lbs.

Price:

Complete with chucks,	\$10.00
Extra chucks, Nos. 2 to 5, each,	\$.50
Extra chuck, No 1,	\$ 1.00



No. 491 Pin Vise

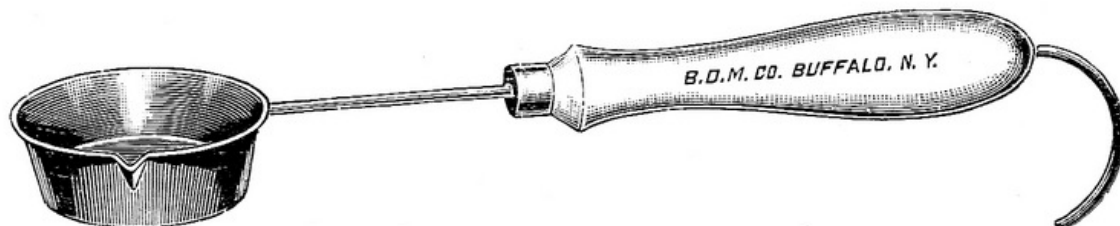


For holding small pieces of wire for filing; for holding small reamers, drills, etc. Jaws will close evenly and com-

pletely. Made of brass with blued steel chuck. 3 $\frac{1}{4}$ " overall.

Price: \$.30

Acid Pans



Made of pure copper. Wood handle has a metal hook on the end which permits the pan to be set down without tipping. For pickling fine metals in acid

over a Bunsen flame.

No. 395	4 " diameter.	Price: \$1.50
No. 396	1 $\frac{7}{8}$ " diameter.	Price: \$1.15
No. 397	3 " diameter.	Price: \$1.25

Lathe Belting

Solid leather, 3/16-inch diameter.
Cut to any length, sold by the foot.

Price: Per foot, \$.10
Hooks, each, \$.05

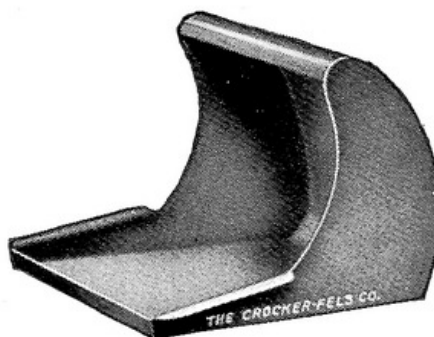
Lathe Splashers

Polishing and grinding jobs deposit more or less dirt and dust on the work bench unless there is some protection. These splashers are so constructed that

water, pumice, grindings, dust, etc., are caught and held, thus protecting bench and walls. Made of heavy gauge sheet iron and finished in grey enamel.



No. 1



No. 2

No. 1. Six inches wide, 12 inches long, and 8½ inches high. Has water bath on top for holding sponge, which is useful for keeping grinding wheels wet.

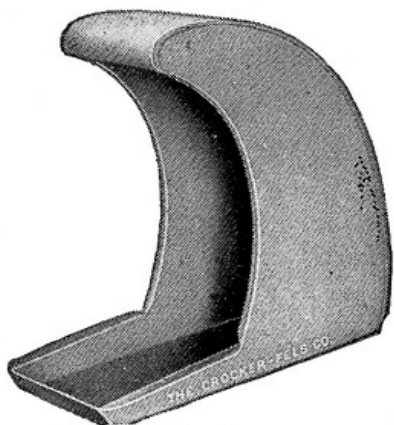
Weight: 2½ lbs.

Price: \$3.25

No. 2. Same dimensions as the No. 1, but plain top without provision for water bath.

Weight: 2½ lbs.

Price: \$3.00

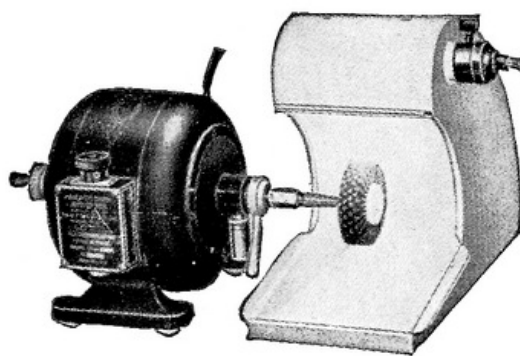


No. 3

No. 3. Six inches wide, 14 inches long, and 15 inches high. Designed for use with large lathes.

Weight: 3 lbs.

Price: \$4.50



No. 4

No. 4. Six inches wide, 14 inches long, and 11 inches high. Fitted with socket for an electric light. The light illuminates the work being polished.

Weight: 4 lbs.

Price: \$5.00

No. 2 Anvil

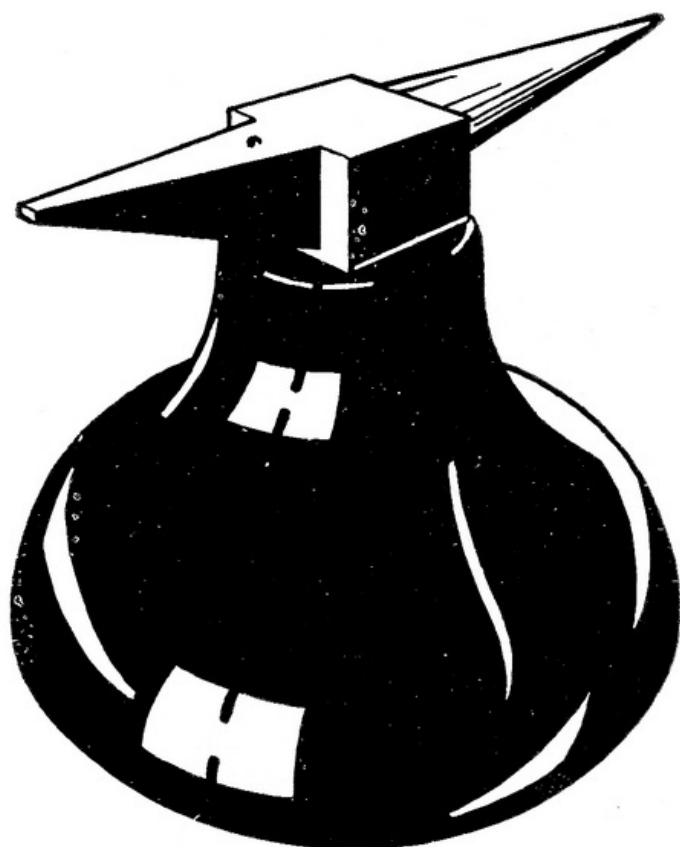
A handy tool for those doing light hammered metal work or jewelry manufacture. Solid cast steel with hardened surfaces, mounted on a strong heavy iron base. Pierced with hole for wire drawing. About $3\frac{1}{4}$ inches from point to point.

Price: \$1.25.

Floor Anvils

Where noise is taboo, or where space is limited or confined to small pieces, these anvils will be found invaluable. They are unlike anything else on the market. The body, of galvanized iron, is filled with sand, on which rests a solid iron block 7 inches in diameter. The column of sand absorbs practically all of the hammer recoil, and the sharp metallic ring is resolved into a dull metallic thump. It may be used in an attic workshop without seriously disturbing those below.

The two models are similar, except that one carries an iron base that adds to its stability and appearance.



The complete anvil stands approximately 29 inches high. Finished in maroon enamel.

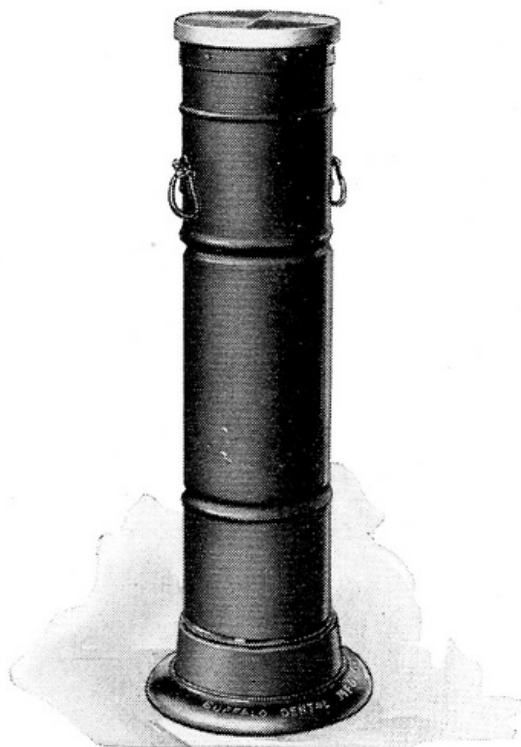
Shipped with or without sand at the same price.

Weight, with sand, 100 lbs.
without sand 25 lbs.

Price: No. 113, \$13.00
No. 113B, 16.00



No. 113



No. 113B

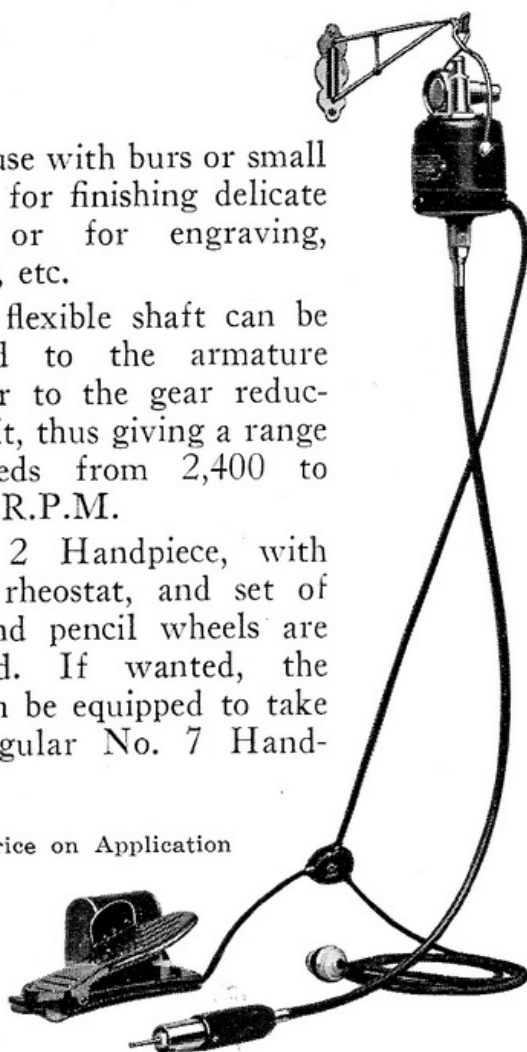
No. 2 Flexible Shaft Utility Tool

For use with burs or small wheels, for finishing delicate work, or for engraving, carving, etc.

The flexible shaft can be attached to the armature shaft or to the gear reduction unit, thus giving a range of speeds from 2,400 to 12,000 R.P.M.

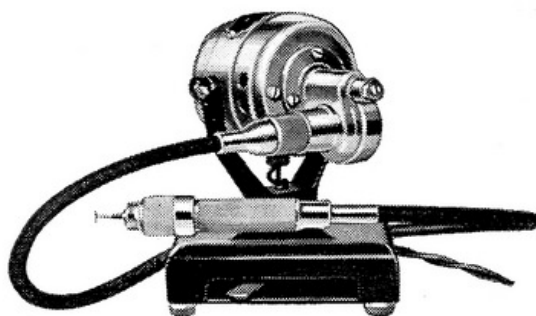
No. 2 Handpiece, with chuck, rheostat, and set of burs and pencil wheels are included. If wanted, the tool can be equipped to take the Regular No. 7 Handpiece.

Price on Application



No. 2 Flexible Shaft Utility Tool

Geared Utility Tool



Geared Utility Tool

Equipped with a balanced concentric chuck capable of using drills from $\frac{1}{8}$ " down to No. 80.

Drive is transmitted through a worm gear and 31" flexible shaft. A five-step rheostat in the base gives speeds from 500 to 2,000 R.P.M.

The regular equipment includes flexible shaft, No. 1 Handpiece with chuck, plug and cord. An adapter can be purchased in order to use the Regular No. 7 Handpiece.

Price on Application

Flexible Arms Complete

For use with any style motor. These complete arms may be used with motors having shafts of $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch diameter. There are eight different "Flexarms", of which we illustrate two. All of them are equipped with Hand-

pieces, but they vary in details of fittings according to the hp. ratings of the motor.

Tell us the diameter of the shaft of your motor and the horsepower, and we will gladly advise you and quote prices.



No. 723

Price on Application



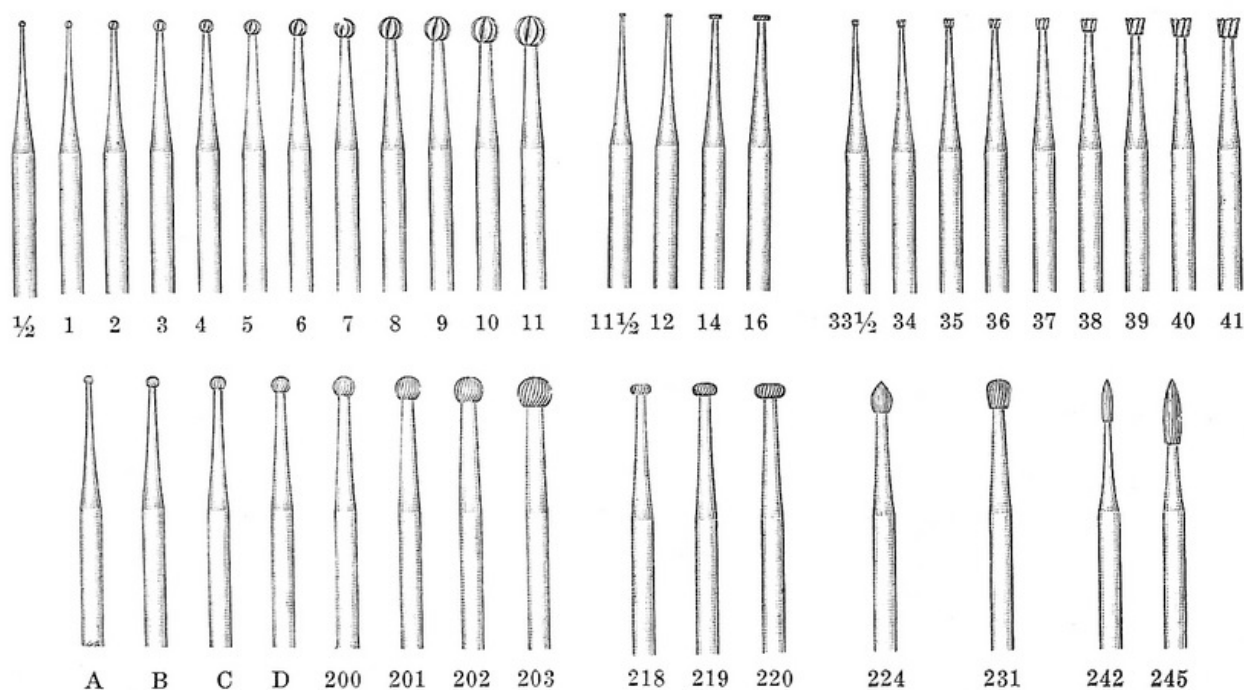
No. 434

Price on Application

Burs

For cutting brass, steel, bone, wood, ivory, or any similar homecraft material. These burs are accurately made, with necks and shanks of a hard spring-

temper. Overall length, $1\frac{3}{4}$ ". Shank diameter, .092". For use with any chuck or handpiece that will take .092" shanks.



Packed in boxes of 12.

Price, per box: \$1.50

Abrasive Wheels

Made of genuine Carborundum. For use on mandrel No. 303. Complete assortment, $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ " and 1" diameters, and $\frac{1}{16}$ ", $\frac{1}{8}$ " and $\frac{3}{16}$ " thick.



Price, each: \$.10

No. 303 Mandrel

Made of steel. Accurately turned and carefully finished. They fit into handpieces or chucks perfectly. Shank diameter, .092". For carrying abrasive wheels.

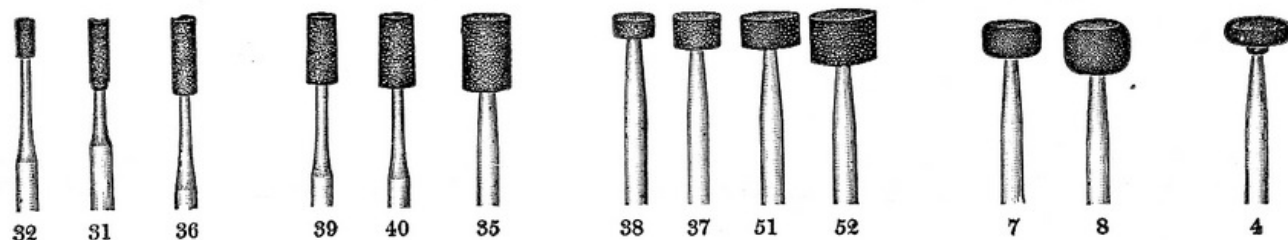


Price, each: \$.20

Mounted Abrasive Points

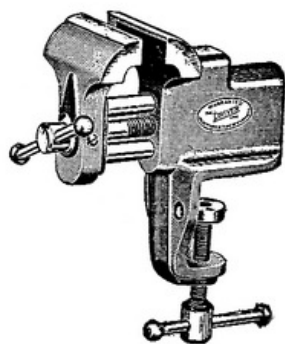
Genuine Carborundum, mounted on .092" steel mandrels. They are accurately

formed, with precisely centered mandrels. Supplied in medium grit.



Price, each: \$.20

Bench Vises



Green Line Vises

Both sizes are well made tools which will be found indispensable for all kinds of shop use. Jaws are polished, with smooth faces.

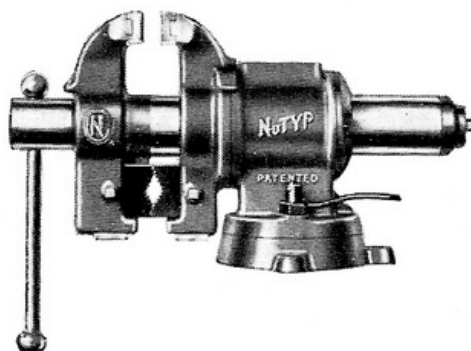
No. 2—2½" jaw. Open 2⅝"

Weight: 3½ lbs. Price: \$1.90

Borax in Sticks

Borax is the standard soldering flux for precious metals. This stick borax is prepared in handy form, and will be found more convenient than powdered borax for home use.

Price: Per stick, \$.20



Nutyp Vises

Strictly high grade. Price includes interchangeable jaws, providing a means of holding work of any form. No. 501 clamps to bench. Nos. 601 and 602 screw to bench.

No. 501—1¾" jaw. Open 1¼"

Weight: 7 lbs. Price: \$ 7.00

No. 601—1¾" jaw. Open 1¼"

Weight: 6½ lbs. Price: \$ 6.00

No. 602—2½" jaw. Open 2¾"

Weight: 30 lbs. Price: \$14.00

Glass Borax Holder

Wood base with a metal cover and concave ground glass dish 2⅞" in diameter. Just the thing for preparing borax soldering paste or solution.

Price: \$.60.

Soldering Fluid

The proper liquid soldering flux for use in hard soldering gold or other precious metals. Does not settle in the bottle.

Price: Per bottle, \$.20

Lubricating Oil

Buffalo Dental Superfine Oil is used for general household lubricating purposes and is particularly good for oiling motors of all kinds. Of the proper consistency for use on oil stones for sharpening edge tools. It is colorless and odorless, and will not gum or thicken in seldom-used appliances. Supplied in 6-ounce bottles with screw cap.

Shipping weight: 1 lb. Price: \$.75



Knives



No. 4



No. 6



No. 7

For general work in the home workshop and particularly recommended for those interested in wood working, ship model making, basketry, sloyd, leather work, linoleum block work, etc. Made of finest quality American cutlery steel and fitted with large uniform size green enameled handles that fit the hand.

No. 4	2 $\frac{5}{8}$ " blade	Price: \$.50
No. 6	1 $\frac{5}{8}$ " blade	\$.60
No. 7	1 $\frac{1}{2}$ " blade	\$.60

Chisels



No. 20



No. 21



No. 22

New pattern, wonderfully well adapted for all kinds of wood carving on furniture, ship and coach models, linoleum blocks, etc. Made of the same fine quality steel as our knives, and with the same green enameled handles. The blades are 1 $\frac{3}{4}$ " long.

Price: Nos. 20, 21, or 22, each, \$.65

Files

These files or fine rasps are particularly useful in finishing hulls of ship models and bodies of coaches. The cut is also proper for dressing down the softer metals such as pewter, copper, brass, etc.

Half round files are double ended, one end coarse cut and the other medium. Accurately spaced serrations at the proper angle to permit easy clearance of filings. Round files have a tang for fitting to a wooden file handle, and

have the same free clearing cut as the half round. A trial will convince any craftsman that these files are distinctly different and will serve many useful purposes.



Prices:	8" double end, half round	\$.50
	9" double end, half round	.60
	5" single end, round	.40
	6" single end, round	.45

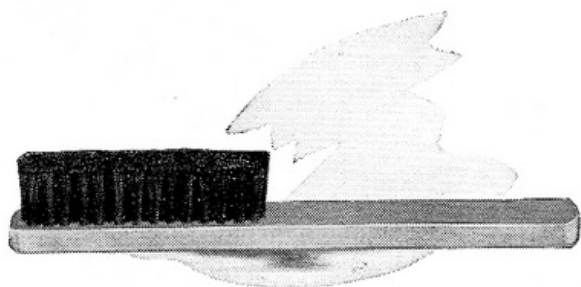
Waxing Spatula

A convenient tool for modeling in wax or clay. Made of steel heavily nickel-plated and polished. Seven inches overall.

Price: \$1.00

Scouring Brushes

For cleaning metal work with pumice or whitening after removal from the pickle. The No. 2P has somewhat finer bristles than the No. 208A or 214A.



Prices:

No. 2P, length overall 8" (illustrated)	\$.60
No. 208A, 13" straight handle	.65
No. 214A, 13" curved handle	.65

Pumice

Coarse, for abrasive polishing with brush wheels or cloth buffs. This is used wet with water. Also valuable for preliminary smoothing in wood finishing.

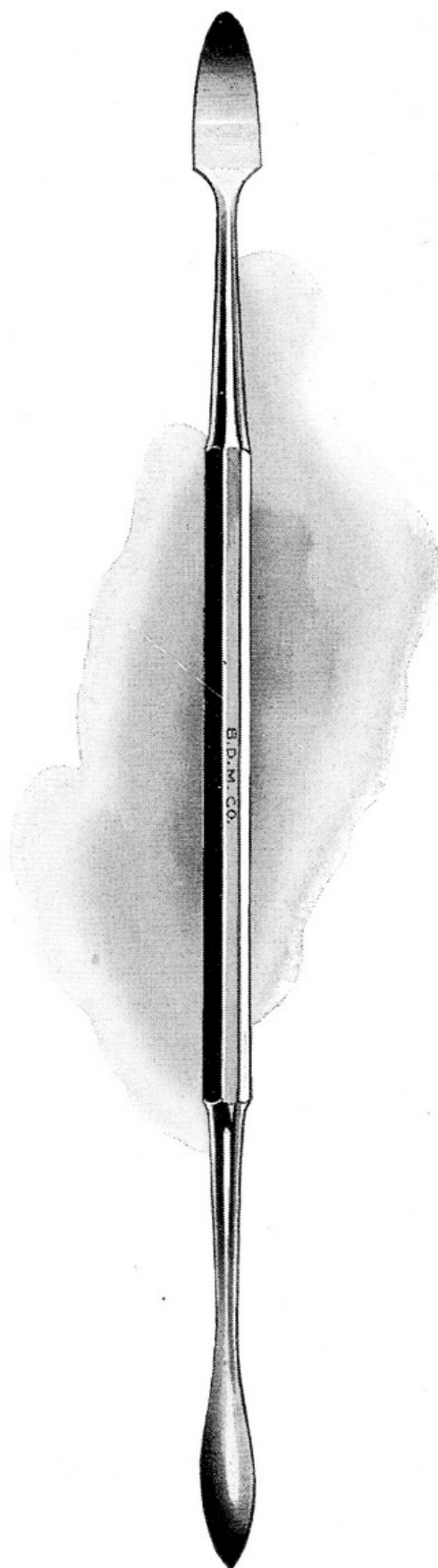
Price: Per pound, \$.25

Flour of Pumice

The finest grade of pumice known. Used for an extremely fine abrasive on metal or wood. For rubbing down varnished surfaces it is unequalled.

This Flour, and our coarse pumice, are special products, free from gritty matter. Do not confuse them with paint-store merchandise,—they cannot be obtained except under the Buffalo label.

Price: Per can, \$.25

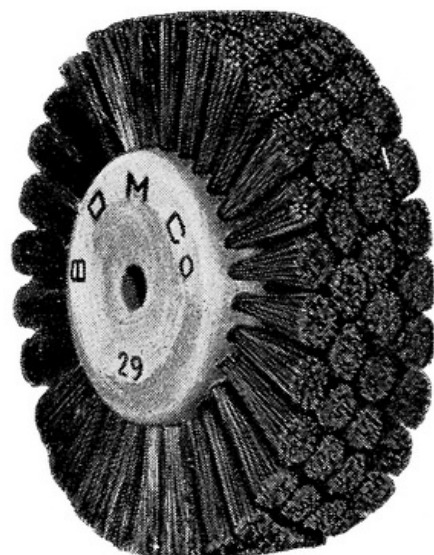


Lathe Brush Wheels

These polishing wheels are made of genuine black China pig bristles and white goat hair, mounted in blocks of polished hard wood. Each separate tuft is staple tied. The black wheels can be used for all kinds of polishing with abrasives such as pumice, etc. The soft

white wheels are used for giving the work a light brush finish.

Brush wheels, felt goods and chamois and cloth buffs are used on a tapered screw chuck on a polishing head or motor.



Straight Bristle:

No. 25	Stiff Black
No. 29	Stiff Black
No. 30	Soft White

Rows

3
4
4

Diameter

2 3/4"
3 "
3 "

Price

\$.20
.25
.40

Converging Bristles:

No. 20	Stiff Black
No. 23	Stiff Black
No. 27	Stiff Black

2
3
4

2 1/2"
3 "
3 "

.15
.20
.25

Cup Shape:

No. 65	Stiff Black
--------	-------------

2

1 7/8"

.20

Chamois Wheels

For putting the final polish on metals.
Used with Hilustre or rouge.

Chamois Wheels, 2 "	diameter	Price \$.35
2 1/2 "	diameter	.45
3 "	diameter	.50

Buffing Wheels

Supplied in muslin and cotton flannel, the material being a matter of choice with the craftsman. Used for polishing

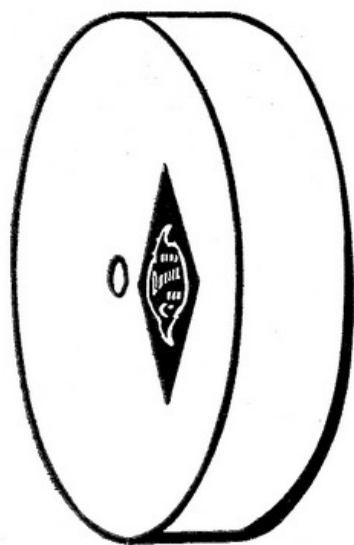
all metal work with Hilustre, rouge, whiting, etc.

Muslin:		Price
3"	40-ply 2 rows of stitching	\$.25
4"	40-ply 2 rows of stitching	.35
5"	45-ply 3 rows of stitching	.45
6"	50-ply 3 rows of stitching	.55

Cotton Flannel:		Price
3"	30-ply 2 rows of stitching	\$.30
4"	30-ply 3 rows of stitching	.40
5"	30-ply 4 rows of stitching	.50
6"	30-ply 4 rows of stitching	.60

Felt Wheels and Cones

Lathe buffing wheels and cones of ice. Excellent for getting into corners
hard felt for use with water and pump- and folds of metal work.



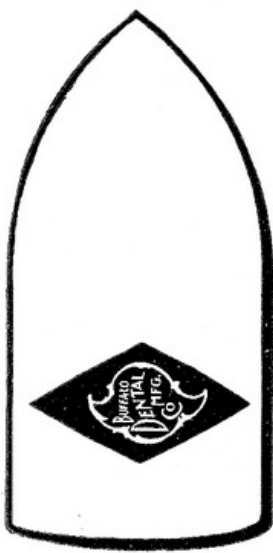
Felt Wheels:

Square Edge

			Price
No. 1-S	1 $\frac{1}{8}$ " diameter	1 $\frac{1}{2}$ " thick	\$.15
No. 2-S	1 $\frac{5}{8}$ " diameter	1 $\frac{1}{2}$ " thick	.25
No. 3-S	2 $\frac{1}{4}$ " diameter	1 $\frac{1}{2}$ " thick	.40
No. 4-S	2 $\frac{1}{2}$ " diameter	1 $\frac{1}{2}$ " thick	.50

Knife Edge:

No. 1-K	1 $\frac{1}{2}$ " diameter	1 $\frac{1}{4}$ " thick	.15
No. 2-K	1 $\frac{3}{4}$ " diameter	1 $\frac{1}{4}$ " thick	.25
No. 3-K	2 $\frac{1}{4}$ " diameter	1 $\frac{1}{4}$ " thick	.40
No. 4-K	2 $\frac{1}{2}$ " diameter	1 $\frac{1}{4}$ " thick	.50



Felt Cones:

Pointed:

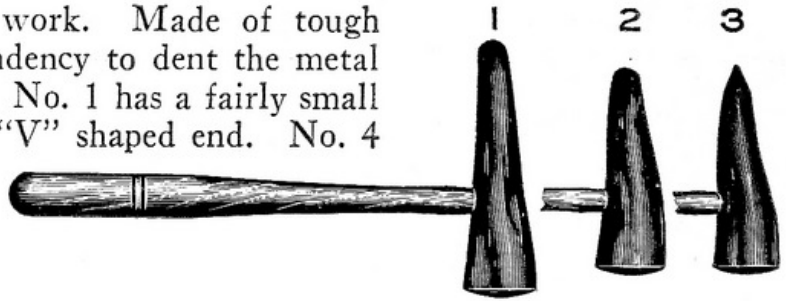
No. 1-C	1 $\frac{1}{2}$ " diameter	1 " long	.15
No. 2-C	3 $\frac{3}{4}$ " diameter	1 $\frac{1}{2}$ " long	.20
No. 3-C	1 " diameter	2 " long	.30

Blunt:

No. 4-C	1 $\frac{1}{2}$ " diameter	1 " long	.15
No. 5-C	3 $\frac{3}{4}$ " diameter	1 $\frac{1}{2}$ " long	.20
No. 6-C	1 " diameter	2 " long	.30

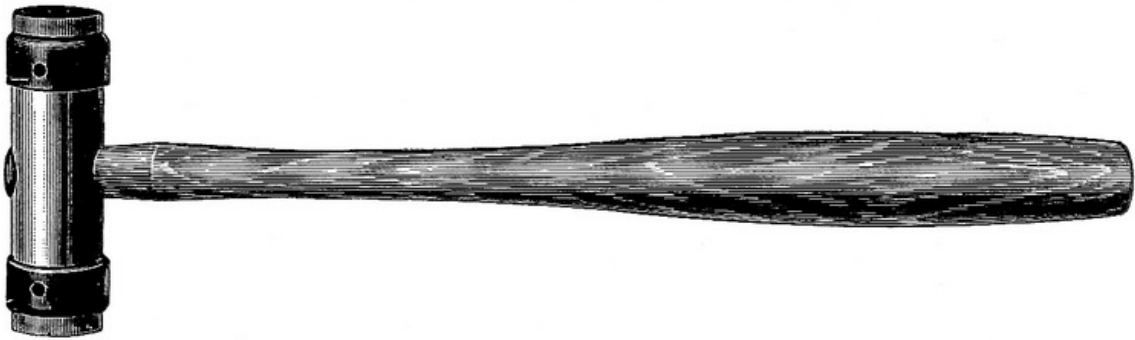
Horn Mallets

Very useful for light metal work. Made of tough domestic horn which has less tendency to dent the metal than the ordinary pein hammer. No. 1 has a fairly small end. No. 2 blunt end. No. 3 "V" shaped end. No. 4 is a small size for very light work, and measures 9 inches overall with a 3-inch head.



Price: Nos. 1, 2, 3, each, \$1.00
No. 4, each, \$.50

Fibre Faced Hammers



Made in three weights, 10, 16, and 24 ounce. They are used where a heavy blow is required without injury to the material struck. The vulcanized fibre faces are removable and can be easily replaced when worn or damaged.

Price: No. 10, \$1.00
No. 16, \$1.50
No. 24, \$2.00

Steel Hammers

Small size jeweler's hammers with solid steel heads. Fitted with nicely finished hard wood handles.

No. 1 Steel Hammer, $2\frac{1}{4}$ " head.
Price: \$.50
No. 2 Steel Hammer, $2\frac{1}{2}$ " head.
Price: \$.50

Rawhide Mallets

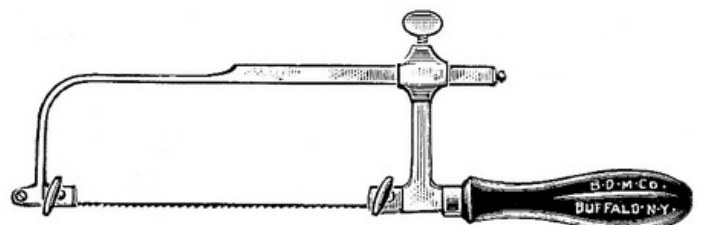
Solid rawhide heads, glued and steel riveted, with hammer type handles. Will strike an effective blow without injury or mar.

No. 3— $1\frac{3}{4}$ " face 7½ oz.
Weight: . . . **Price:** \$1.25
No. 4—2" face 10 oz.
Weight: 1 lb. **Price:** \$1.60
No. 5— $2\frac{3}{4}$ " face 21 oz.
Weight: 2 lbs. **Price:** \$3.60

Saw Frames and Saws

Plain pattern. Five-inch saw space between ends and a sawing depth of $1\frac{7}{8}$ ". Well made and serviceable.

Price: \$1.25
Saws for same, Nos. 00, 1, 3.
Price: Per dozen, \$.20



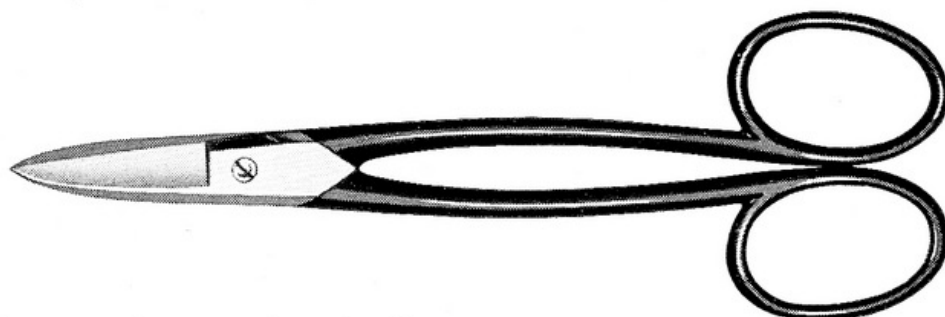
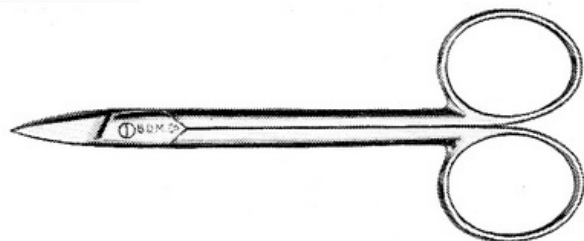
Shears

These shears and scissors are superior quality, well finished, and perfectly suited for the purposes for which they are suggested.

For cutting small pieces of gold or silver in jewelry work. Polished and nickel-plated. They measure 4" overall.

No. 64 Curved. Price: \$1.00

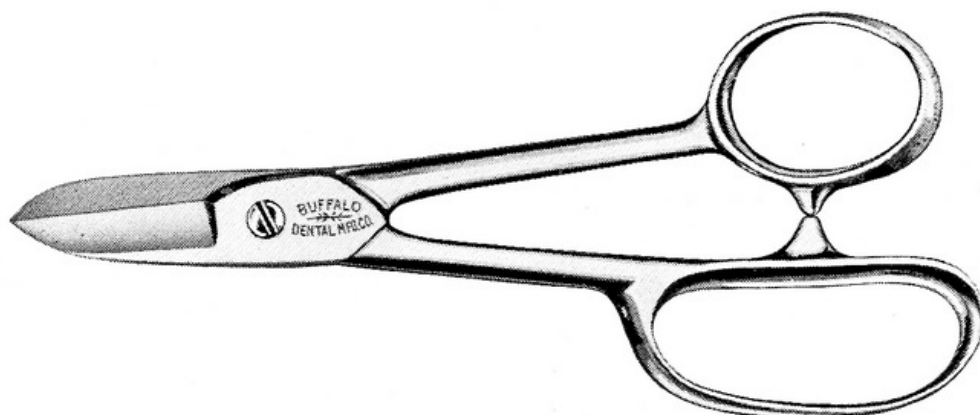
No. 64A Straight. Price: \$1.00



An ideal type for cutting leather, cardboard, reeds in basketry, or thin metals. They measure 7" overall.

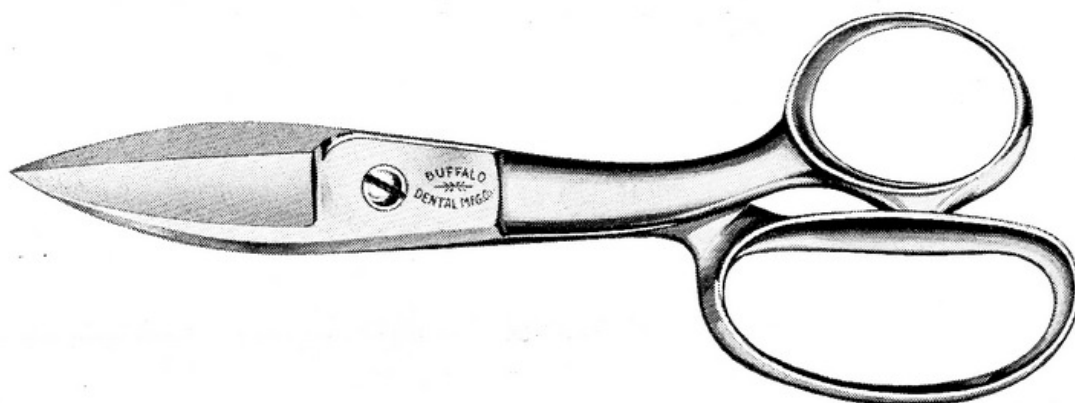
No. 60 Straight. Price: \$1.25

No. 61 Curved. Price: \$1.25



Splendid, full nickel, American-made shears which will do excellent work where ordinary tinner's snips are too clumsy. Measure $7\frac{1}{4}$ " overall with $1\frac{1}{2}$ " blades.

No. 71 Straight. Price: \$1.75

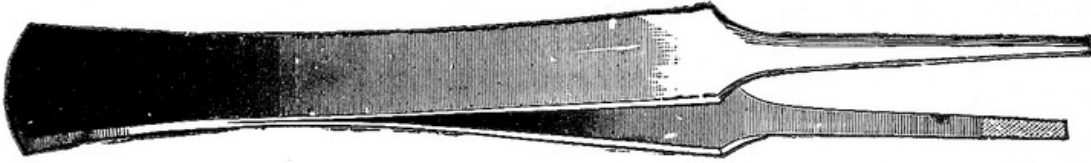


Without doubt the best shear we have to offer. They are full nickel, American made. Heavy without being clumsy.

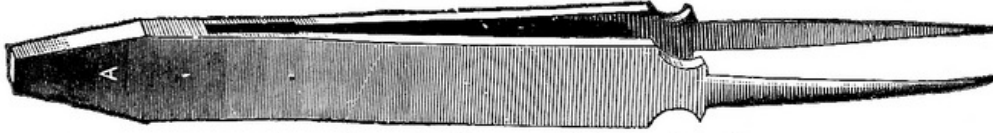
Blades are $2\frac{1}{4}$ " long and $\frac{3}{4}$ " wide. The shear is 8" overall.

No. 55 Straight. Price: \$2.10

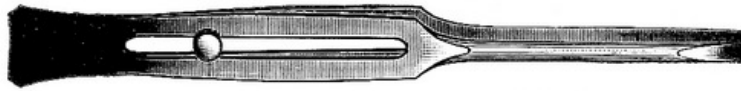
Steel Soldering Tweezers



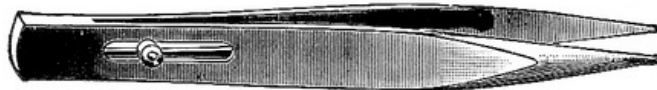
No. 9 Flat Points. Nickel plated.
4 ¹/₈" long. Price: \$.15



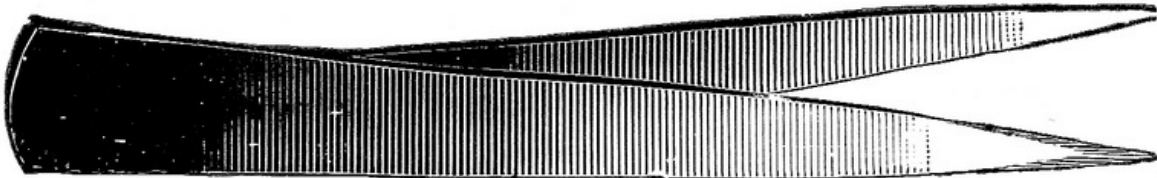
No. 12 Slim Points. Nickel plated.
3 ³/₄" long. Price: \$.30



No. 53 Slide Lock Blunt. Nickel
plated. 5 ¹/₂" long. Price: \$.40



No. 53A Slide Lock Pointed. Nickel
plated. 4 ³/₄" long. Price: \$.60



No. 73 Plain. 4 ¹/₂" long. Price: \$.15

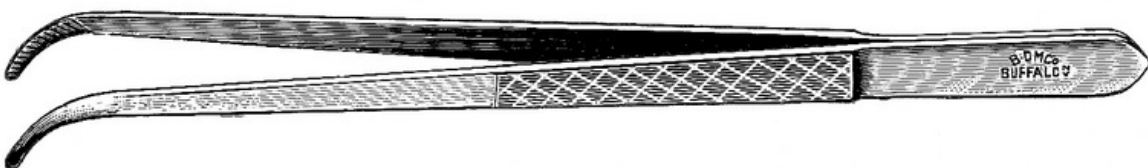


No. 175 Long Straight. Plain.
6 ¹/₂" long. Price: \$.35



No. 175A Long Curved. Plain.
6 ¹/₂" long. Price: \$.35

No. 176 Soldering Tongs



For general use in soldering operations and work around the bench. Brushed nickel finish. Nine inches long. Price: \$1.00

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